



PIX 16417

The Department of Health and Human Services' Parklawn Building undertook numerous energy and water conservation measures to rank in the top 25% of the nation in energy efficiency and earn an ENERGY STAR rating.



PIX 16418

The Fort Knox Disney Barracks Area used a UESC to replace 70% of HVAC systems with geothermal heat pumps. The project saves 102 million cubic feet of natural gas and more than \$800,000 annually.

**Education and training on energy management:** Federal agencies learn to implement energy-saving strategies, gain recognition for outstanding achievements, and keep current on the Federal Government's progress in meeting energy management goals through FEMP training, services, and outreach. Programs include:

- FEMP Web site
- FEMP Focus newsletter
- You Have the Power awareness campaigns
- Federal Energy and Water Management Awards
- Presidential Awards for Leadership in Federal Energy Management
- Department of Energy Management Awards
- Energy Awareness Month
- Earth Day

FEMP Focus promotes energy awareness, recognizes successes, and communicates information about saving energy and taxpayer dollars across the Federal sector. The quarterly newsletter also keeps Federal agencies informed about conferences and workshops, innovative financing strategies, technical analysis tools and updates, and developments in energy management.

FEMP awards honor the contributions of individuals and groups within Federal agencies. For more than 25 years, the awards have honored more than 1,000 Federal employees for outstanding initiative, perseverance, and creativity.

FEMP provides promotional materials and outreach campaigns for both Energy Awareness Month and Earth Day. Energy Awareness Month is celebrated each October to help Federal agencies promote energy-saving practices. Earth Day is celebrated each year on April 22.



PIX 15150



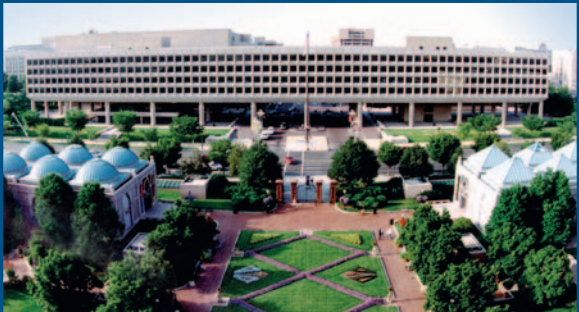
PIX 11070

***"Now is the time to take comprehensive and sustained action to meet our nation's energy challenge. And with the leadership of the President, the actions of this Congress, and the support and participation of the American people, I am confident that we will succeed."***

Secretary of Energy Steven Chu



Federal Energy Management Program



**FEMP facilitates the Federal Government's implementation of sound, cost-effective energy management and investment practices to enhance the nation's energy security and environmental stewardship.**

**For more information contact:  
EERE Information Center  
1-877-EERE-INF (1-877-337-3463)  
[www.eere.energy.gov](http://www.eere.energy.gov)**

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Energy Efficiency & Renewable Energy

# Lead by Example

## with Smart Energy Management

**Energy Efficiency** **Renewable Energy**  
**Water Conservation** **Alternative Fuels**



Center for Disease Control and Prevention's Arlen Specter Headquarters and Operations Center reached LEED® Silver rating through sustainable design and operations that decreased energy consumption by 20% and water consumption by 36% beyond standard codes.

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Printed with a renewable-source ink on paper containing at least 50% wastepaper, including 10% post consumer waste.



Federal Energy Management Program





PIX 16420

The Missisquoi National Wildlife Refuge Headquarters and Visitor Contact Station showcases renewable energy with a geothermal HVAC system, 15 kW PV array, 10 kW wind turbine, and clean-burning wood stove.



PIX 15988

The U.S. Postal Service's 220,000 vehicle fleet includes 42,000 alternative-fuel vehicles to deliver more than 212 billion pieces of mail each year.



PIX 16421

The Frank Hagel Federal Building sits atop an underground spring. More than 16 million gallons of this water is diverted each year for use, saving \$41,000 annually.

## Smart Energy Solutions for Federal Agencies

The Federal Government, as the nation's largest energy consumer, has a tremendous opportunity and acknowledged responsibility to lead by example. The Department of Energy's (DOE) Federal Energy Management Program (FEMP) plays a critical role in this effort.

FEMP facilitates the Federal Government's implementation of sound, cost-effective energy management and investment practices to enhance the nation's energy security and environmental stewardship. FEMP does this by focusing on the needs of its Federal customers, delivering an array of products grouped into project transaction services, applied technology services, and decision support services.

### Project Transaction Services

#### Financing energy efficiency and renewable energy projects:

Implementing energy efficiency, renewable energy, and water conservation projects requires significant funding. FEMP supports Federal agencies through the entire project development process, offering assistance in identifying, obtaining, and implementing alternative financing mechanisms. These alternative financing tools include:

- Energy savings performance contracts (ESPCs)
- Utility energy services contracts (UESCs)

***"We will lead a revolution in energy efficiency, modernizing more than 75% of Federal buildings and improving the efficiency of more than 2 million American homes. This will not only create jobs, it will cut the Federal energy bill by a third and save taxpayers \$2 billion each year and save Americans billions of dollars more on their utility bills."***

**President Barack Obama**

- Power purchasing agreements (PPAs)
- Federal and state energy incentives programs

With assistance from FEMP, the Federal Government's commitment to improving energy efficiency has accelerated and grown in recent years. Federal ESPCs facilitated by DOE now exceed \$1 billion for the first time in the program's history. The current pipeline has more than tripled in size since February 2007, and continues to grow.

### Applied Technology Services

**Designing, operating, and maintaining high-performance buildings:** FEMP helps Federal agencies create and implement sustainable design, operation, and maintenance practices that incorporate energy efficiency, renewable energy, and water-conservation technologies. FEMP services in this area include:

- Energy audits
- Operations and maintenance assessments

- Laboratory design protocols
- New technology reports
- Advanced metering
- Guidance for purchasing energy-efficient products and renewable energy technologies

One program example is FEMP's Laboratories for the 21st Century (Labs21) partnership with the Environmental Protection Agency (EPA), which reduces Federal laboratory energy use by \$18 million annually. Another is the first-ever White House Memorandum of Understanding on Federal Leadership in High Performance and Sustainable Buildings and the issuance of the Guiding Principles for Sustainable Buildings.

#### Evaluating and implementing energy-efficient products:

The Federal Government can reduce energy consumption and achieve enormous cost savings by purchasing energy-efficient products. FEMP provides energy efficiency purchasing specifications, guidance, and cost calculators that help Federal agencies offset energy consumption costs through energy-efficient product implementation.

Federal buyers are required by the Energy Policy Act of 2005 (EPAc 2005) to purchase products that are ENERGY STAR®-qualified or FEMP-designated for energy efficiency and low standby power. These products are in the upper 25% of energy efficiency in their class.

**Implementing renewable energy technologies:** Renewable energy from solar, wind, hydro, ocean, biomass, and

## Recognizing Excellence

Since 1997, FEMP's You Have the Power campaign has recognized hundreds of individuals and teams whose remarkable achievements have helped Federal agencies reach important renewable energy, energy efficiency, water conservation, and money saving goals.



geothermal resources can provide energy for heating, cooling, and electricity. FEMP assists Federal agencies in developing and implementing these clean, secure energy resources to meet energy management regulations and goals.

By using renewable energy resources, Federal agencies can meet energy management regulations, help conserve our natural resources, and increase the nation's energy independence and security.

**Managing energy-efficient/alternative-fuel vehicles:** The Federal fleet currently consists of 600,000 domestic vehicles. While 20% (121,778 vehicles) can be powered by alternative fuel, legislation mandates ongoing reductions in fleet petroleum use through energy-efficient and alternative-fuel vehicles.

FEMP provides guidance and assistance for implementing and managing energy-efficient and alternative-fuel vehicle fleets. This includes helping Federal agencies meet new fleet management mandates, such as recent requirements for agencies to reduce petroleum consumption and increase alternative fuel use annually.

### Decision Support Services

**Complying with energy legislation and regulations:** FEMP regularly analyzes energy legislation and regulations to help Federal agencies comply with all applicable requirements. This assistance is delivered through interagency coordination, development of guidance documents, and assistance with annual reporting requirements.